ASBESTOS ASSE:

SURVEY

H-K Building ~. ~25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ

Building Number: 25
Building Name: FERMENTATION

SEATTLE, WASHINGTON Building Type: BEER FERM. Year Constructed: 1958

******* AREA NUMBER: 01	AREA DESC	RIPTIO	N: Basement-Tank Room		AREA AVERAGE	X ASBE	STOS: 41	X	********		
LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&H CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
along north wall	00-356408	60%	pipe covering	OMA	28 ft. 6 in. 0.D.	HPS/R	28 111	\$363	\$227	\$590	
along south wall	00-356408	60%	pipe covering	OMA	55 ft. 4 in. 0.0.			\$491	\$307	\$798	
along south wall	00-356408	60%	pipe covering	OMA	8 ft. 6 in. O.D.			\$104	\$65	\$1691	
along north wall	00-356408	60%	pipe covering	OHA	65 ft. 4 in. O.D.			\$580	\$363	\$943	
southwest area-above air handling unit	00-356408		pipe covering	AHO	25 ft. 4 in. 0.0.			\$223	\$139	\$362	
along west wall	00-356408	60%	pipe covering	AMO	110 ft. 4 in. O.D.	HPS/R	28 111	\$981	\$614	\$1,595	
crawl space-in north wall-near ceiling	00-356408	60%	pipe covering	AMO	5 ft. 4 in. 0.D.	HPS/R	111 85	\$45	\$28	\$73	
south center area-by convertor	00-356408	60%	pipe covering	OMA	46 ft. 4 in. O.D.	HPS/R	28 111	\$410	\$257	\$667	
NE center area-above yeast retainers	00-356408	60%	pipe covering	AMO	16 ft. 4 in. 0.D.	HPS/R	28 111	\$143	\$89	\$232	
northeast area-by chilled water tank	00-356408	60%	pipe covering	AMO	10 ft. 6 in. 0.D.	HPS/R	-28 111	\$130	\$81	\$211	
by northeast concrete column	00-356408	60%	pipe covering	AMO	60 ft. 4 in. 0.D.	HPS/R	28 111	\$89	\$56	\$145	
northeast area-by chilled water tank	00-356408	60%	pipe covering	OMA	12 ft. 4 in. 0.D.	HPS/R	28 111	\$107	\$67	\$174	
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	AHO	32 ft. 4 in. 0.D.	DW	28 111	\$285	\$179	\$464	
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	OHA	3 ft. 8 in. 0.D.	DW	28 111	\$42	\$30	\$72	
center-running north & south-at ceiling	00-356415	10%	wrapped cardboard/paper pipe	OHA	20 ft. 6 in. 0.D.	DW	28 111	\$260	\$162	\$422	
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	AMO	6 ft. 6 in. 0.D.	DW	28 111	\$78	\$49	\$127	
center-running north & south-at ceiling	00-356415	10%	urapped cardboard/paper pipe	OMA	95 ft. 4 in. 0.D.		28 111	\$847	\$530	\$1,377	
NW center area-above yeast retainers	00-356415	10%	wrapped cardboard/paper pipe	OMA	48 ft. 4 in. 0.D.	DW	28 111	\$428	\$268	\$696	
along north & west walls	02-356404 02-356405 02-356406	0% 0% 0%	mjp on non-suspect pipe cover	AMO	15 4 in. O.D.	DW		·			
along north wall	03-356409	60%	mjp on pipe covering	OMA	13 6 in. 0.D.	HPS/R	28 111	\$503	\$295	\$798	
crawl space-in north wall-near ceiling	03-356409	60%	mjp on pipe covering	OHA	1 4 in. O.D.	HPS/R		\$28	\$16	\$44	
southwest area-above air handling unit	03-356409	60%	mjp on pipe covering	OMA	3 4 in. O.D.	HPS/R		\$84	\$47	\$131	
along north wall	03-356409		mjp on pipe covering	OMA	16 4 in. O.D.		28 111	\$449	\$250	\$699	
along south wall	03-356409		mjp on pipe covering	OHA	4 6 in. O.D.	HPS/R		\$155	\$91	\$246	
along south wall	03-356409		mjp on pipe covering	AMO	20 4 in. O.D.	HPS/R		\$562	\$312	\$874	
along west wall	03-356409		mjp on pipe covering	AHO	6 4 in. O.D.		28 111	\$169	\$94	\$263	
by northeast concrete column	03-356409		mjp on pipe covering	OMA	2 4 in. O.D.	HPS/R		\$56	\$31	\$87	
NE center area-above yeast retainers	03-356409		mjp on pipe covering	OMA	3 4 in. 0.D.		28 111	\$84	\$47	\$131	
northeast area-by chilled water tank	03-356409		mjp on pipe covering	OMA	2 6 in. O.D.	HPS/R		\$77	\$45	\$122	
northeast area-by chilled water tank	03-356409		mjp on pipe covering	OHA	3 4 in. O.D.	HPS/R		\$84	\$47	\$131	
south center area-by convertor	03-356409		mjp on pipe covering	OMA	14 4 in. O.D.		28 111	\$393	\$219	\$612	
` <u> </u>	03-356410	40%			., 4 0.0.	0, 1	28 111	13/3	JL .,	اء.ت	
	03-356411	50%					28 111				
south center area-convertor tank-by AHU	04-356412		boiler/tank insulation	OMB	11 sq.ft.		28 111	\$311	\$249	\$560	
, , , , , , , , , , , , , , , , , , , ,	04-356413	50%		J. 10			28 111	-311	4647	-500	
	04-356414	50%	l				28 111	·		1	
north wall-northeast area	05-356416		mjp on wrapped cardboard/paper	OMA	2 8 in. 0.0.	DU	28 111	\$96	\$57	\$153	
center-running north & south-at ceiling	05-356416		mjp on wrapped cardboard/paper		10 6 in. 0.0.	DW		\$387			
north wall-northeast area	05-356416		mjp on wrapped cardboard/paper				28 111		\$227	\$614	
1 The the mate from the court of the	1 01-0104-10	40%	linth on susbbed caudoosud\babet.	APPL	12 4 fn. O.D.	DW	28 111	\$337	\$187	\$524	

HALL-KIMBRELL ENVIRONMENTAL INC.

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ASBESTOS ASSEL

SURVEY

H-K Building *--25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION

SEATTLE, WASHINGTON

Building Type: BEER FERM.

Year Constructed: 1958

north wall-northeast area center-running north & south-at ceiling NW center area-above yeast retainers	05-356416 05-356416 05-356416 05-356417 05-356418	40%	mjp on wrapped cardboard/paper mjp on wrapped cardboard/paper wrapped cardboard/paper pipe		15 4	in.	0.D. 0.D. in. 0.D.	DW DW	28 111 28 111 28 111 28 111 28 111	\$116 \$421 \$143	\$68 \$234 \$89	\$184 \$655 \$232
SE area-above refrigeration tanks	06-356419 06-356420 06-356421		mjp on non-suspect pipe cover	OHA	6 4	in.	0.0.	DR	28 111 28 111 28 111	\$169	\$94	\$263

AREA COMMENTS

AREA # 01 TOTAL \$10,230 \$6,210 \$16,440

The materials are in fair to good condition with minor contact and water damage. The materials are approximately 1' to 16' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, extensive gross removal procedures are recommended. This appears to be a high traffic area.

*****	AREA NUMBER: 02	AREA DESCRIPTION: Basement	AREA AVERAGE % ASBESTOS: 3%	******

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT	PL	REHOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
tank room-running N & S-at center of rm east of elevator tank room-SE area-above ammonia tanks	07-356422 07-356422 07-356422 07-356423 07-356424	2%	cork pipe covering cork pipe covering cork pipe covering	OHA OHA OHA	25 ft. 8 in. 0.0 10 ft. 12 in. 0. 30 ft. 8 in. 0.0	D RS/R	12 12 12 12 12	IV IV IV	\$354 \$220 \$424	\$253 \$169 \$303	\$607 \$389 \$727

AREA COMMENTS

AREA # 02 TOTAL \$998 \$725 \$1,723

The material is in good condition with minor contact and water damage. The material is approximately 10' from the floor. At a minimum, it is recommended that the material be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a high traffic area.

******	AREA NUMBER:	03	AREA DESCRIPTION:	1st Floor-Above Permanent Celling	AREA AVERAGE % AS	CRECTOR ORY	******
				TOT TOO INDOOR TOTALLINE OCT (1)	WEN WILKING A N	30L3103. 20x	

LOCATION OF THE MATERIAL	SAMPLE NUMBER	A9B	MATERIAL DESCRIPTION	O&M COOE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356400 00-356407 01-356401	10% 50% 40%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mjp on wrapped cardboard/paper mjp on wrapped cardboard/paper		7 ft. 4 in. 0.D. 7 ft. 8 in. 0.D. 7 ft. 6 in. 0.D. 1 4 in. 0.D. 2 8 in. 0.D.	DW	17 17 17 17 17	IV IV IV	\$62 \$99 \$91 \$28 \$96	\$39 \$71 \$57 \$16 \$57	\$101 \$170 \$148 \$44 \$153

HALL-KIMBRELL ENVIRONMENTAL INC.

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ASBESTOS ASSES

H-K Building *---25

Project Number: 0980193E Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

AREA # 03 TOTAL

Building Name: FERMENTATION SEATTLE, WASHINGTON

\$376

\$240

\$616

Building Type: BEER FERM.

Year Constructed: 1958

01-356403 40%	17 IV	

AREA COMMENTS

The materials are in good condition with minor contact and water damage. The materials are approximately 1. to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

*******	AREA NUMBER: 04	AREA DESCRIPTION: 2nd Floor-Above Permanent Ceiling	AREA AVERAGE % ASBESTOS: 22%	*******
1			ANGEL MUZIKAGE A MUZICIOOV EEN	

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&H CODE	UNITS OF QUANTITY MEASURE	PIPE ID	-	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356425 00-356425 00-356429 08-356426 08-356426 08-356427 08-356428	10% 35% 35%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mip on wrapped cardboard/paper mip on wrapped cardboard/paper		20 ft. 4 in. 0.D. 7 ft. 8 in. 0.D. 7 ft. 6 in. 0.D. 3 8 in. 0.D. 7 4 in. 0.D.	DW	17 17 17 17	IA	\$178 \$99 \$91 \$144 \$197	\$112 \$71 \$57 \$85 \$109	\$290 \$170 \$148 \$229 \$306

AREA COMMENTS

AREA # 04	TOTAL	\$709	\$434	\$1,143

The materials are in good condition with minor contact and water damage. The materials are approximately 1. to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

	· · · · · · · · · · · · · · · · · · ·			
******	AREA NUMBER: 05	AREA DESCRIPTION: 3rd Floor-Above Permanent Ceiling	AREA AVERAGE % ASBESTOS: 22%	******
L			****** *******************************	· · · · · · · · · · · · · · · · · · ·

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE 10	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356430 00-356430 00-356434 09-356431 09-356431 09-356432 09-356433	10% 35% 33%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mip on wrapped cardboard/paper mjp on wrapped cardboard/paper		20 ft. 4 in. 0.D. 7 ft. 8 in. 0.D. 7 ft. 6 in. 0.D. 7 4 in. 0.D. 3 8 in. 0.D.	DW	17 17 17 17 17 17	IV IV IV IV	\$178 \$99 \$91 \$197 \$144	\$112 \$71 \$57 \$109 \$85	\$290 \$170 \$148 \$306 \$229

HALL-KIMBRELL ENVIRONMENTAL INC.

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ASBESTOS ASSE.

SURVEY

H-K Building25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION
SEATTLE, WASHINGTON

Building Type: BEER FERM.

Year Constructed: 1958

AREA COMMENTS

AREA # 05 TOTAL \$709 \$434 \$1,143

The materials are in good condition with minor contact and water damage. The materials are approximately 1' to 10' from the floor. At a minimum, it is recommended that the materials be maintained and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

******** AREA NUMBER: 06 AREA DESCRIPTION: 4th Floor-Above Permanent Ceiling AREA AVERAGE % ASBESTOS: 33%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE		IITS OF	PIPE ID	EXP POT		REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
janitor's closet	00-356435	10%	wrapped cardboard/paper pipe	OMA	18 ft.	4 in. 0.D	. DW	18	IV	\$161	\$100	\$261
janitor's closet	00-356435	10%	wrapped cardboard/paper pipe	OMA	8 ft.	8 in. 0.D	. DW	18	17	\$113	\$81	\$194
Janitor's closet	00-356439	50%	pipe covering	AMO	10 ft.	4 in. 0.D	HPS/R	18	10	\$89	\$56	\$145
Janitor's closet	00-356439	50X	pipe covering	OMA	55 ft.	6 in. 0.D	HPS/R	18	IV	\$714	\$446	\$1,160
janitor's closet	10-356436	20%	mjp on wrapped cardboard/paper	OHA	6 4 in	. O.D.	DW	18	IV	\$169	\$94	\$263
janitor's closet	10-356436	20%	mjp on wrapped cardboard/paper	AHO	3 8 in	. O.D.	DW	18	17	\$144	\$85	\$229
	10-356437	30%	1					18	IV		•	
	10-356438	30%						18	IV			
janitor's closet	11-356440		mjp on pipe covering	OHA	5 4 in	. O.D.	HPS/R	18	11	\$140	\$78	\$218
janitor's closet	11-356440		mjp on pipe covering	OMA	21 6 fr	. O.D.	HPS/R	18	IV	\$812	\$477	\$1,289
	11-356441	50%						18	IV			·
	11-356442	50%						18	IV			

AREA COMMENTS

AREA # 06 TOTAL \$2,342 \$1,417 \$3,759

The materials are in fair condition with localized contact and water damage. The materials are approximately 1' to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

********* AREA NUMBER: 07 AREA DESCRIPTION: 4th Floor-Above Permanent Ceiling AREA AVERAGE % ASBESTOS: 62% ***********

LOCATION OF THE MATERIAL	SAMPLE NUMBER	AS8	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL		REPLACEMENT COSTS	TOTAL COSTS
janitor's closet	12-356443 12-356444 12-356445	60% 70% 55%	debris	OMF	6 s	q.ft.		110 110 110	1	\$100	\$0	\$100

HALL-KIMBRELL ENVIRONMENTAL INC.

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ASBESTOS ASSE.

SURVEY

H-K Building25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION

SEATTLE, WASHINGTON

Building Type: BEER FERM. Year Constructed: 1958

AREA COMMENTS

AREA # 07 TOTAL \$100 \$0 \$100

This debris is magnesia pipe covering found on the floor of this area. At a minimum, it is recommended that the debris be removed. If removal is planned, gross removal procedures are recommended. This appears to be a low traffic area.

****** AREA NUMBER: 08

AREA DESCRIPTION: 5th Floor-Hot Wort Tank Room

AREA AVERAGE % ASBESTOS: 35%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
north wall-near floor north wall-near floor north wall-near floor	00-356446 00-356447 13-356448 13-356449 13-356450	30%	pipe covering pipe covering mjp on pipe covering	OHA OHA OHA	4 1	ft. 4 in. 0.D ft. 4 in. 0.D i in. 0.D.		24 24 24	111 111 111 111 111		\$22 \$22 \$31	\$58 \$58 \$87

AREA COMMENTS

AREA # 08 TOTAL \$128 \$75 \$203

The materials are in good condition with minor contact damage. The materials are up to 4' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

AREA NUMBER: 09

AREA DESCRIPTION: Basement

AREA AVERAGE % ASBESTOS: 30%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY		TS OF SURE	PIPE		PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
area east of elevator	00-356408	60%	pipe covering	OHA	18 (t. 4	in. 0.	D. HPS/I	₹ 25	111	\$161	\$100	\$261
area east of elevator	00-356415	10%	wrapped cardboard/paper pipe	AMO	18 1	t. 8	in. 0.	D. DW	25	111	\$255	\$182	\$437
area east of elevator	00-356415	10%	wrapped cardboard/paper pipe	OHA	8 1	t. 6	in. 0.	D. DW	25	111	\$104	\$65	\$169
area east of elevator	00-356415		wrapped cardboard/paper pipe	OMA	25 1	t. 4	in. 0.	D. DW		111	\$223	\$139	\$362
E of elevator-SE corner-above HW heater	00-356737	50%	pipe covering	OHA	8 1	t. 4	in. 0.	D. DW	25	111	\$71	\$45	\$116
area east of elevator	02-356404	0%	mjp on non-suspect pipe cover	OHA	4 4	in.	O.D.	DW			i		
	02-356405 02-356406	0% 0%								i			
area east of elevator	03-356409	60%	mjp on pipe covering	OHA	8 4	in.	O.D.	HPS/I	25	111	\$225	\$125	\$350
	03-356410	40%	1					, .		111		•	-
	03-356411	50%	1							111			
area east of elevator	05-356416	40%	mjp on wrapped cardboard/paper	OMA	6.8	i in.	O.D.	DW		III	\$289	\$170	\$459
area east of elevator	05-356416	40%	mip on wrapped cardboard/paper	OMA			O.D.	DW		111	\$225	\$125	\$350
area east of elevator	05-356416	40%	mjp on wrapped cardboard/paper				0.D.	DW	25	111	\$271	\$159	\$430
	05-356417	50%								111			

HALL-KIMBRELL ENVIRONMENTAL INC.

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ASRESTOS ASSES

SURVEY

H-K Building *--25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION

SEATTLE, WASHINGTON

Building Type: BEER FERM. Year Constructed: 1958

25 111 05-356418 50%

AREA COMMENTS

AREA # 09 TOTAL \$2,934 \$1,824 \$1,110

The materials are in good condition with minor contact damage. The materials are approximately 5' to 12' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, gross removal procedures are recommended. This appears to be a high traffic area.

***** AREA NUMBER: 10 AREA DESCRIPTION: Stairwells AREA AVERAGE % ASBESTOS: 20%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID		PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
2nd floor	00-356425	10%	wrapped cardboard/paper pipe	OHA	12 ft. 4 in. 0.D	. DW	25	111	\$107	\$67	\$1
3rd floor	00-356430	10%	wrapped cardboard/paper pipe	OHA	12 ft. 4 in. 0.D	. DW	25	111	\$107	\$67	\$1
4th floor	00-356435	10%	wrapped cardboard/paper pipe	OHA	12 ft. 4 in. 0.D	. DW	25	111	\$107	\$67	\$1
2nd floor	08-356426	35%	mip on wrapped cardboard/paper	OHA	1 4 In. O.D.	DW	25	111	\$28	\$16	\$
	08-356427	32%	1				25	111			
	08-356428	30%	1				25	111			
3rd floor	09-356431	33%	mjp on wrapped cardboard/paper	OHA	1 4 in. 0.D.	DW	25	111	\$28	\$16	1
	09-356432	20%	1 " " "				25	111	į		
	09-356433	40%	1				25	111			
4th floor	10-356436	20%	mjp on wrapped cardboard/paper	AHO	1 4 in. O.D.	DW	25	111	\$28	\$16	1
	10-356437	30%	1 " " "				25	111			
	10-356438	30%					25	111	i		

AREA COMMENTS

AREA # 10 TOTAL \$405 \$249 \$654

The materials are in good condition with minor contact damage. The materials are approximately 6° to 16° from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a high traffic area.

> BUILDING # 25 TOTAL \$28,715 \$17,821 \$10,894

HALL-KIMBRELL ENVIRONMENTAL INC.

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